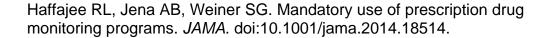
## **Supplementary Online Content**



eTable. PDMP Prescriber Use Mandates and Reported Subsequent Changes

This supplementary material has been provided by the authors to give readers additional information about their work.

## eTable. PDMP Prescriber Use Mandates and Reported Subsequent Changes 4.5

State	Circumstances Requiring a PDMP Check		Subsequent Changes			Penalties for
(Year	Prescriptions	Prescribing	No. of PDMP	Quantity	No. of	Failure to
<b>Implement</b>		Exemptions	Queries	Prescribed and	<b>Individuals</b>	Check
ed)				Dispensed	"Doc	
					Shopping" <sup>a</sup>	
Ohio	Upon initial prescribing	Hospice patients	Increased from	No. of	Decreased	Disciplinary
$(2011)^{b}$	of Schedule II-V		911 000 in 2010	hydrocodone	from 25/100	sanctions by
	substances if prescriber		to 1.8 million in	prescriptions and	000 residents	licensing board
	has reason to believe		2011, 5.4 million	doses decreased by	in the first	
	treatment will exceed 12		in 2012, 7.3	11.1% and 3.5%,	quarter of	
	wk (continuously);		million in 2013,	respectively, from	2010 to	
	annually after the initial		and more than 2	2012 to 2013; No.	~10/100 000	
	prescription for courses		million in the	of oxycodone	in the last	
	of treatment that last		first quarter of	prescriptions and	quarter of	
	beyond 1 y for that		2014	doses decreased by	2013	
	patient; and if physician			8.7% and 1.7%,		
	believes patient may be			respectively, from		
	abusing or diverting			2012 to 2013;		
	drugs based on			morphine		
	enumerated signs (eg,			equivalent dose per		
	frequently asking for			opioid prescription		
	early refills of reported			decreased ~12%		
	drugs)			from 2010 (58) to		
				2013 (51)		
Kentucky	Upon initial prescribing	Issued during an	Increased from	Overall controlled		Disciplinary
(2012) <sup>c</sup>	or dispensing of Schedule	emergency or	811 000 in 2011	substance		sanctions by
	II and III substances	following surgery,	to $\sim 2.7$ million	dispensing		licensing board
	containing hydrocodone;	patients in hospitals	in 2012 and $\sim 4.6$	decreased from ~		
	every 3 mo after the	or long-term care	million in 2013	7.4 million doses in		
	initial prescription for	facilities, cancer and		the year before to		

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	courses of treatment that last beyond 3 mo for that patient; and before prescribing refills or any additional Schedule II or III substances containing hydrocodone	end-of-life treatments, single- dose treatments to relieve symptoms from a procedure		~6.8 million in the year after the mandate		
Tennessee (2013) <sup>c</sup>	Upon initial prescribing of opioids and benzodiazepines for more than 7 d; and every 12 mo after the initial prescription when prescribed controlled substance remains part of the treatment	Hospice patients, issued following surgery (nonrefillable), 7-d supply or less, patients in inpatient or residential settings	Increased from ~124 000/mo in 2011 to ~415 500/mo in 2013	No. of opioid prescriptions decreased from ~1.6 million to ~1.5 million and morphine milligram equivalents dispensed decreased ~6% from August 2012 to July 2013	Decreased by ~36% from August—October 2012 to May–July 2013	Disciplinary sanctions by licensing board
New York (2013)	Prior to prescribing or dispensing any Schedule II-IV substance	Practitioner- administered controlled substances, issued in ED (5-d supply or less), hospice patients, when it is not reasonably practicable to access the registry in a timely manner or registry consultation would adversely affect a patient's	Increased from ~11 000/month from 2010 to June 2013 to ~42 300/day in the 6 mo after the mandate	No. of opioid prescriptions and individuals with opioid prescriptions decreased by ~9.5% from the fourth quarter 2012 to the fourth quarter 2013	Decreased by ~75% from the fourth quarter of 2012 to the fourth quarter of 2013	Fine up to \$2000, up to 1 y in jail, and/or professional misconduct charges that can result in permanent revocation of license

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	medical condition		

Abbreviation: ED, emergency department; PDMP, prescription drug monitoring program.

<sup>&</sup>lt;sup>a</sup>Individuals with ≥5 prescribers and filling at ≥5 pharmacies in a 3-month period.

<sup>&</sup>lt;sup>b</sup>In June 2014, Ohio passed additional, more objective, PDMP mandate requirements effective April 1, 2015.

<sup>&</sup>lt;sup>c</sup>These states also implemented, in the same year, PDMP enrollment mandates to which they ascribe significant increases in registered users.